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(54) **Thermoelectric Power Generation from Power Feeder**

(57) Apparatuses, methods, and systems are disclosed to use thermoelectric generating (TEG) devices to generate electricity from heat generated by a power cable. An apparatus includes multiple thermoelectric generating (TEG) devices. Each of the TEG devices has a first surface configured to be positioned in thermal communication with an outer surface of the power cable and

a second surface configured to be positioned proximate to an ambient environment around the power cable. The apparatus also includes a set of terminals electrically coupled to the TEG devices. When a temperature differential exists between the first surface and the second surface, the TEG devices convert heat into electricity presented at the set of terminals.

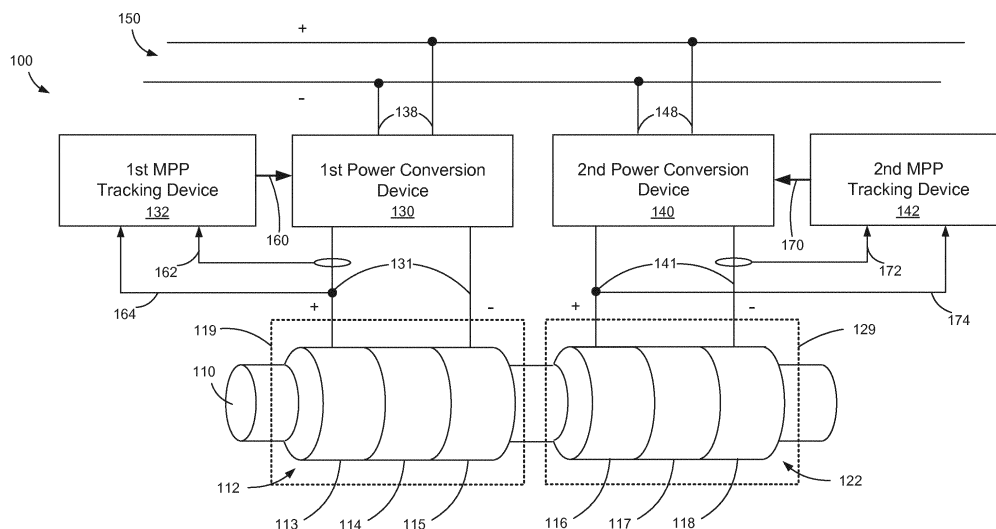


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 12 17 4648

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X	JP S55 68006 A (FUJIKURA LTD) 22 May 1980 (1980-05-22) * figures 1-4 *	1-4	
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A	JP 2008 167626 A (TOYOTA MOTOR CORP) 17 July 2008 (2008-07-17) * abstract; figures 5,9-13 *	1-15	
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 7 July 2014	Examiner Kirkwood, Jonathan
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82